



USER MANUAL

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1 General Introduction

1.1 Specification

System Parameter	Device Model	4 306 26
	Main Processor	High performance industry embedded micro processor
	OS	Embedded LINUX
	Input Device	Front panel button and keyboard
	Shortcut Menu	N/A
Hardware Port Specification	Video Standard	MPEG4/H.264
	Audio Standard	PCM/G711
	Decode Display Resolution	QCIF/CIF/2CIF/ HD1/D1/720P/1080P
	Video Frame Rate	PAL:1~25f/s ; NTSC:1~30f/s
	Bit stream Type	Composite stream/Video stream
	Video Output Channel	4 channels
	Video Output Port	VGA/HDMI/BNC
	Audio Output Channel	4 channels
	Audio Output Port	HDMI/BNC (Level: 200-3000 mV. Resistance: 5Ω)
	Communication Port	One RJ45 10M/ 100M/1000M self-adaptive Ethernet port One RS232 port 2 duplex RS485
	Audio Talk Channel	1 channel
	Audio Talk Port	BNC(Level: 2Vrms. Output resistance : 10k ohms)
	Alarm input	16 channel
	Alarm Output	8-ch relay output (30VDC 1A.125VAC 0/5A activation output)
Working Environment and Other Physical Specification	Power	DC12V, 5.0A
	Power Consumption	≤40W
	Working Temperature	0°C — +55°C
	Working Humidity	10%—90% 86kpa—106kpa
	Dimension (mm)	440×300×42.1 mm
	Weight	3.00—3.50KG

1.2 Feature

Network	Property Setup	Network parameter setup such as IP, gateway, subnet mask. Support remote control.
	NTP	Synchronize system time via NTP service.
	DHCP	Automatically get network parameter such as IP parameter.
	Auto get	After you configured the front-end encode device information, decoder can automatically connect to the encode device and then begin work independently and reliably,
	Passive receive	In transmit mode, decoder can get the random data bit stream from the network server to realize decoding output.
Output	Window Split	The first TV supports 1/4/9/16 window split; the second/third/fourth TV supports 1/4/ window split
	Tour	The product has four output interface sets (VGA, HDMI, TV are contained in each set) Both two products can realize real-time surveillance via monitor and support any tour output of 1/4/9 window split or sequence combination, in addition, both products support decode tour
Alarm	External Alarm	Multiple-channel relay alarm output to activate the peripheral alarm device (such as on-site light control), manual control and activation video output.
	Decoder Alarm	Prompt current decode status in time.
	Precaution Measure	Alarm input port and alarm output port both have protection electricity to guarantee main device safety.
COM	Common COM	Device debug console.
	Network Keyboard	The key board can control the device via network port.
	Control Keyboard	The key board can control the device via RS232 port.
	Transparent COM	Transparent COM function/
Decode	Decode Capability	NVS0404DH max. supports 28 D1 decode output(2M code-stream), there are 14 720P decode output (4M, the main core for 8 channels, the minor cores for 2 channels each) and 7 1080P decode output (8M, the main core for 4 channels, the minor cores for 1 channel each) Auto check current decode loading and prompt user decode abnormal event.
	Real-time stream decode	Get the local real-time bit stream of the encoder and then output.
	Previous stream decode	Get the local previous bit stream of the encoder and then output.
	Message feedback	All application ends can accurately get current decoding status.
User Management	Account Management	Add, modify, and delete user or user group. Modify user password.
	Right Management	Set different rights for different users.
	Security Management	Password protection. Three times login failure may result in account lock.

Others	Version Information	Display device important hardware port information, software version information and etc.
	Log Search	Record device important log. Support search by type.
	Time Synchronization	Set system time manually or synchronization PC time.
	Language Option	English
	DST	Set proper DST time according to different regions' setup.
	Auto maintenance	Auto maintain device regularly.
	DNS	Domain service
	Upgrade	Support various upgrade types such as U disk, network, and TFTP.
	Intelligent Operation	Support copy function for the same setup.

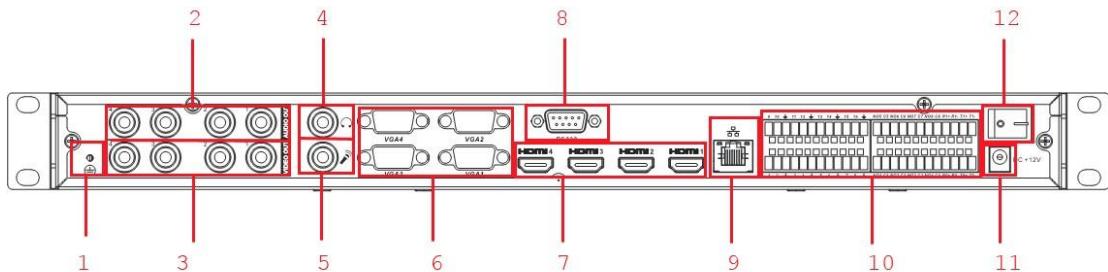
2 Front panel / Real panel / Installation

2.1 Front panel



Name	Icon	Function	Name	Icon	Function
Power button		Press it for three seconds to boot up or shut down the device.	USB port		Connect to external USB device.
Power indication light		The indication light becomes on when system boots up.	Alarm indication light		N/A
Network indication light		The indication light becomes on when abnormal network event occurs (offline, IP conflict and etc.)	HDD indication light		N/A
IR receiver		N/A			
TV indication light		When device is in TV working mode. Only the channel 1 to channel 4 indication lights are effective The rest channels 5 to channel 16 indication lights are null right now.			

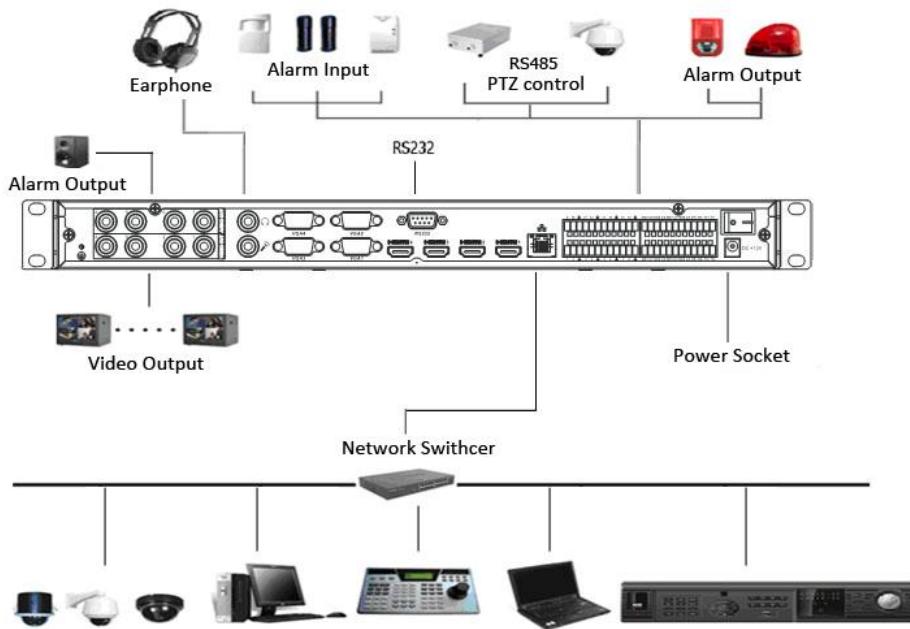
2.2 Rear Panel



SN	Port Name	SN	Port Name	SN	Port Name
1	Ground screw hole	2	Audio output port(BNC)	3	Video output port (BNC)
4	Audio talk output port	5	Audio talk input port	6	VGA port
7	HDMI port	8	RS232 port	11	Power plug port
9	Network interface(10M/100M/1000M self-adaptive Ethernet port)			12	Power switch
10	Relay input, relay output, duplex RS485 port				

2.3 Connection

2.3.1 General Connection



2.3.2 Audio/Video Connection

All audio and video data are encoding from the front-end device and then input to the network via RJ45 port.

2.3.3 Audio Talk Input Connection

It adopts BNC port.

2.3.4 Video Output Device and Connection

The product adopts four output sets. VGA, HDMI and BNC a set; BNC(1.0VP-P , 75Ω).

2.3.5 Audio Output

The audio output parameter of NVS is 200mv 1KΩ (BNC), it can connect directly to low impedance earphone, active sound box or amplifier-drive audio output device.

If the sound box and the pick-up cannot be separated spatially, it is easy to arouse squeaking. In this case you can adopt the following measures:

Use pick-up with better directing property.

Reduce the volume of the sound box until there is no squeaking.

Using more sound-absorbing materials in decoration to reduce voice echo and improve acoustics environment.

Adjust the layout to reduce risk of the squeaking.

3 Operation

3.1 Boot Up and Shut Down

Boot up

Connect the NVS to the power and then press the power button in the front panel. You can see the power indication light becomes on and NVS boots up.

The system is in multiple-window display mode by default.

Shut down

You can press power button in the front panel for three seconds to shut down the device.

System Restore after Power Failure

When decoder is working, if the power failure occurs, the system can automatically connect to the front-end device and restore previous working status once the power connection becomes normal.

3.2 Login

3.2.1 Preparation

Before log in, please make sure:

NVS connection is OK.

You have set PC IP address, NVS IP address, subnet mask and gateway. (Please set the IP address of the same section for the PC and NVS. Please input corresponding gateway and subnet mask if there are routers.) When NVS booted up normally, please input account name **admin** and password **admin** via the PC COM port., then input net -a and then input IP, NETMASK, GATEWAY. The command mode is: net -a [IP] [NETMASDK] [GATEWAY].

For example:

Username: admin

Password: admin

DeBug>net -a 192.168.XXX.XXX 255.255.XXX.XXX 192.168.XXX.XXX

Use order ping ***.***.***.*** (NVS IP address) to check connection is OK or not. Usually the return TTL value should be less than 255.

Open IE and then input the address in the column.

WEB control can be downloaded and installed automatically. System can download the latest Web control and remove the old one.

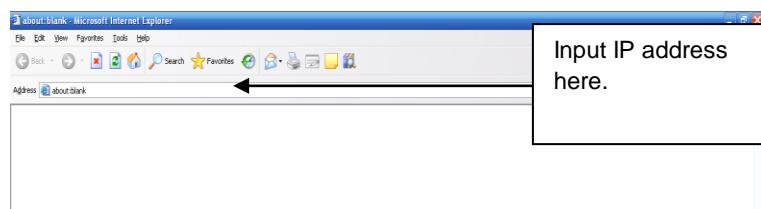
You can run uninstall web.bat to remove the control

System is compatible with web control of WINVISTA. But you need to disable account control item and then reboot the PC.

3.2.2 Login

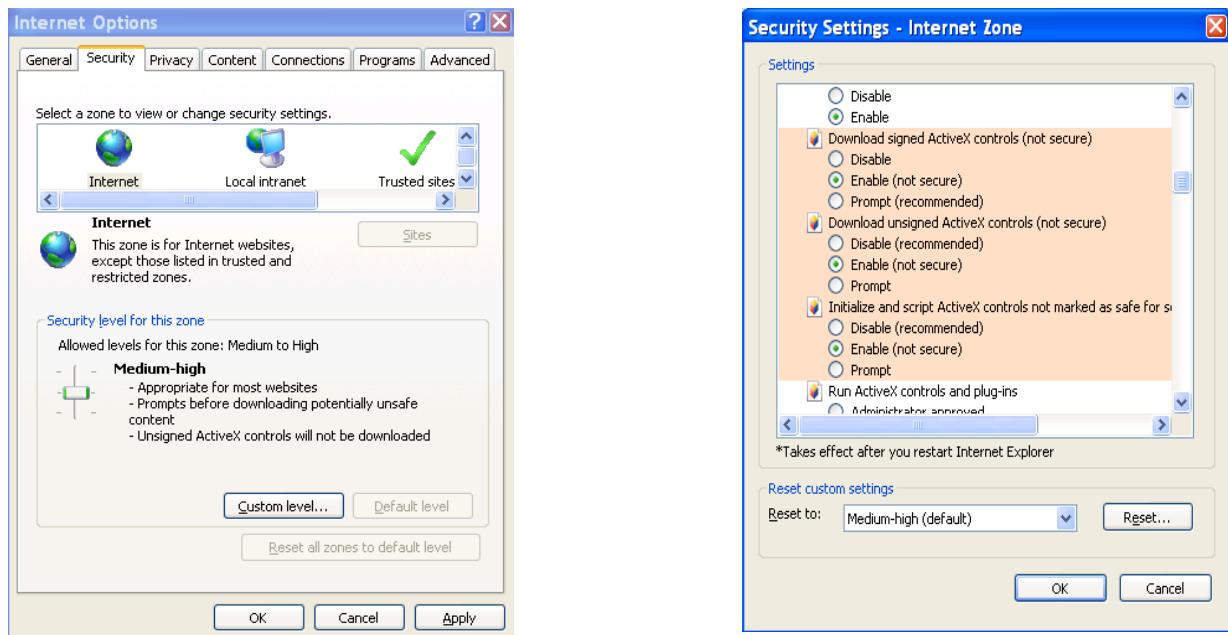
Open the IE and then input the NVS IP address in the address column.

For example, if your NVS IP address is 192.168.1.100, then please input <http://192.168.1.100> in IE address column.

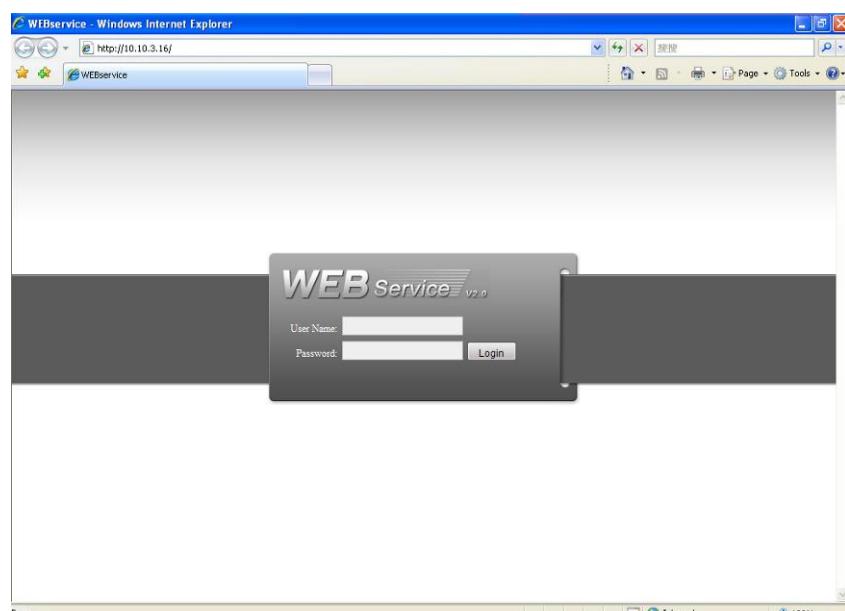


System pops up warning information to ask you whether install webrec.cab control or not. Please click yes button.

If you can't download the ActiveX file, please modify your settings as follows.



After installation, the interface is shown as below.



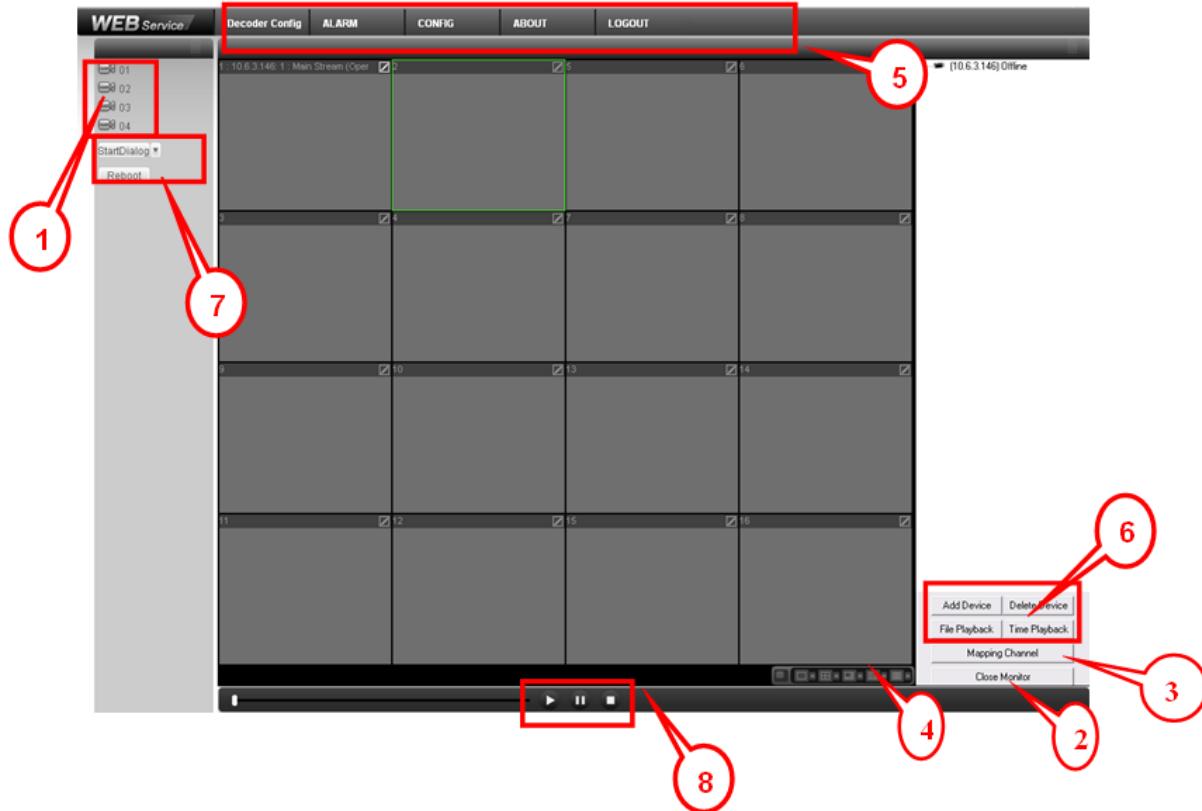
Please input your user name and password.

Default factory name is **admin** and password is **admin**.

Note: For security reasons, please modify your password after you first login.

3.3 Main Window

After login successfully, the interface will be shown as below



There are eight sections:

Section 1: Decode channel

There are 28 decode channels. There are four TVs corresponding to four output sets. Click four icons on the upper left to choose. There are 16 channels in the first TV, please see Figure3-4. There are four channels in the second/third/fourth TV respectively.

TV 1: Decode channel 1 to decode channel 16.

TV2: Decode channel 17 to decode channel 20.

TV3: Decode channel 21 to decode channel 24.

TV4: Decode channel 25 to decode channel 28.

Section 2: Close full-screen monitor

Only close the monitor of the channels of the chosen TV.

Section 3 Channel mapping

For the channel that currently choosing TV only

Section 4 Window split

There are four display modes, namely, single-split, 1/4/9/16 window split. Take the first TV for an example: there are 16 options for single-split: channel 1, Channel 2.....channels 16; 4 options for four-window split: 1-4ch, 5-8 ch, 9-12 ch, 13-16 ch; 2 options for nine-window split: 1-9ch, 8-16ch; one option for 16-window split: 1-16channel.

Section 5: System menu. Please read the user's manual for further reference.

Section6: Here you can view device channel information. You can add/delete decoder front-end device and realize file playback and time playback function. There are two shortcut options: mapping channel and close full-screen monitor.

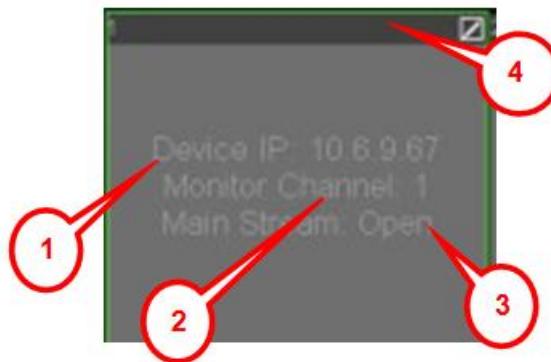
Section7: Bidirectional talk. Please select the corresponding audio talk mode from the drop down list and then enable this function. Click reboot button you can reboot current device.

Section8: There are three buttons: Play/pause/stop.

3.3.1 Decode Channel Information

Single click and choose any decode channel to connect real-time decode output.

1. Front-end device IP address.
2. Front-end real-time monitor channel.
3. The real-monitor channel connection status between the decoder and the front-end.
4. It is a button to control the connection between the decoder and the front-end.



3.3.2 Decode Channel Setup

Please select the output TV and position and then select the device channel in the device list. Double click channel name or drag the channel name to the destination position and then release, you can see system pops up a dialogue box to inform that your setup is valid.

3.3.3 Add /Remove Front-end Device

- Add device

Click the add device button in the main window. System pops up the following dialogue box.

After inputting the corresponding information, please click OK button. You can see the device begins to connect the newly added front-end device.



Once the connection is OK, you can see the channel information in section 3.



- Delete Device

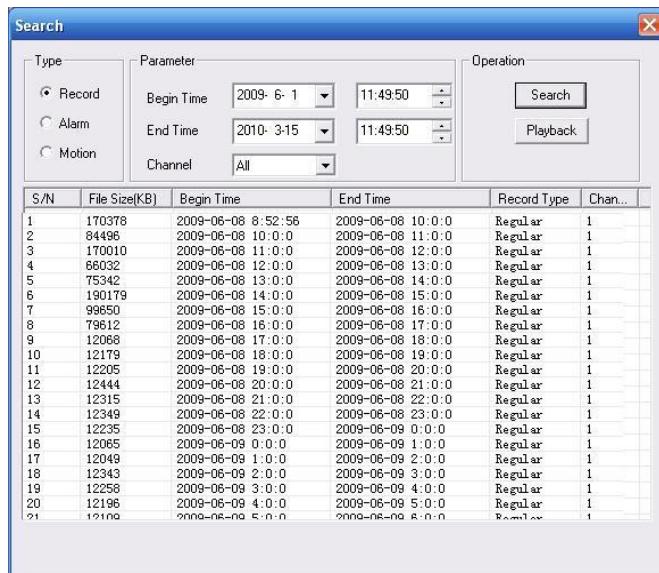
Select one front-end device and then click delete device button, system can remove it from the list.

3.3.4 File Playback and Time Playback

You can select a device you want to playback and then select the corresponding playback mode. There are two modes: file playback and time playback.

- File Playback

Please select the decode channel and then select a front-end (on-line) to playback. Please click the device name and then click file playback button; you can see an interface is shown as below.



Please select record playback mode, and then select start time, end time and channel. Then please click search button, you can see the corresponding files in the list.

Select the file first and then click playback button, you can view the video.



Double click decode channel, you can view in full screen.

The playback bar is shown as below.

The three buttons ranges from left to the right are: playback, pause, and stop.



Note:

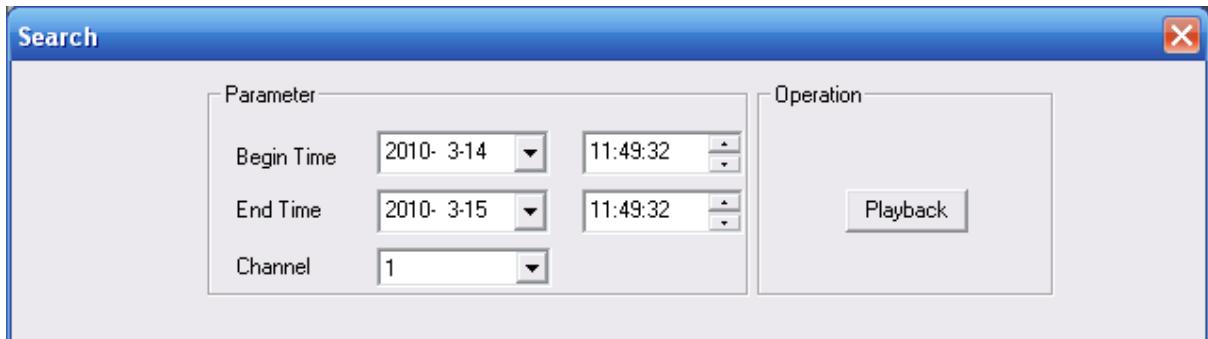
In parameter column, you can click the dropdown list and then select the corresponding date.

When device is play backing in the decode channel, you can view the related information in current Web. Once you exit the Web and then log in again, or you log in the Web in another PC, you can not view that current decode channel is playback right now.

If you searched device is offline, system prompts "Channel search failed" or "No record".

- **Time Playback**

Please select the decode channel and then select a front-end (on-line) to playback. Please click the device name and then click time playback button; you can see an interface is shown as below.

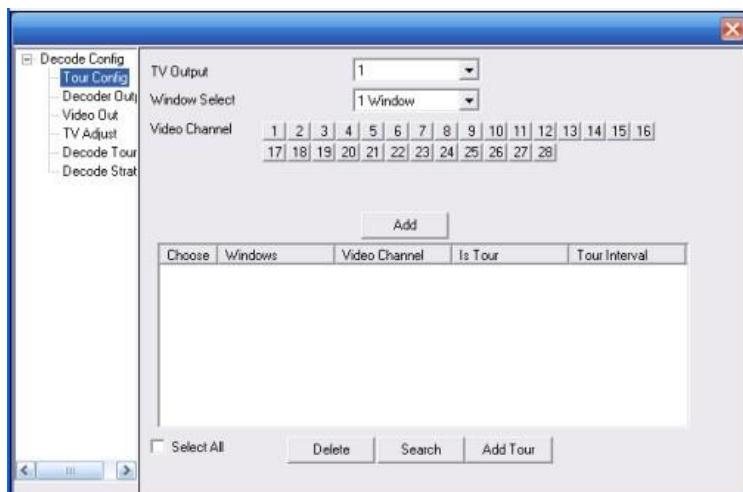


Please select corresponding time period and channel, and then click playback button, system can playback automatically. The playback bar is the same with file playback mode.

3.4 Decoder Configuration

3.4.1 Tour Config

Here you can set decode output channel and tour channel.



Set decoder output channels and tour channels: any output TV can tour at any channel of this device and execute 1/4/9 window tour.

TV output: You can select decoder output TV.

Windows selection: Here you can select single-split, 1/4 or 1/9 window output mode.

Video channel: You can select output decode channel.

TV output	Choose window-mode	Decode channel
1,2,3,4	Single-window	Display in two lines: 1-16 and 17-28
1,2,3,4	1/4 window	1-4 5-8 9-12 13-16 17-20 21-24 25-28

Note: there are no 1/9-window tour in TV2, TV3 and TV4.

3.4.2 Decode Output

The decode output interface is shown as below.

Here you can view current decode information.

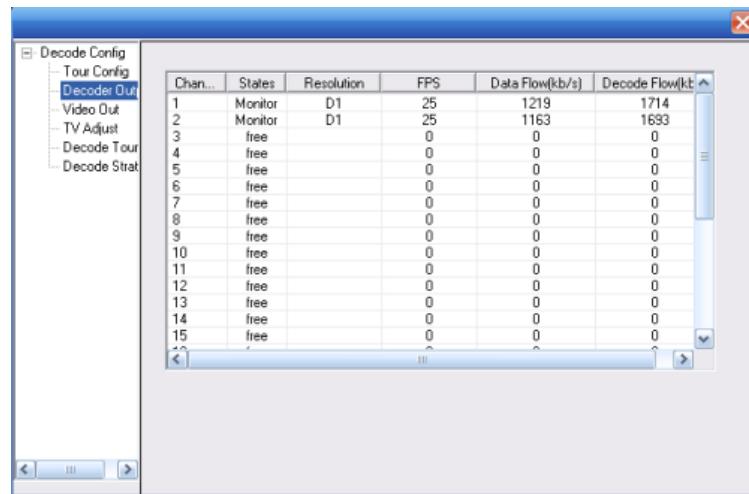
Status: Current channel working status. There are four statuses: Monitor/Playback/Decode/Free.

Resolution: Here you can view video resolution.

FPS: You can view the frame rate.

Data Flow: You can view the network data flow current channel received.

Decode flow: You can view the output video flow current channel decoded.



Chan...	States	Resolution	FPS	Data Flow(kb/s)	Decode Flow(kb/s)
1	Monitor	D1	25	1219	1714
2	Monitor	D1	25	1163	1633
3	free		0	0	0
4	free		0	0	0
5	free		0	0	0
6	free		0	0	0
7	free		0	0	0
8	free		0	0	0
9	free		0	0	0
10	free		0	0	0
11	free		0	0	0
12	free		0	0	0
13	free		0	0	0
14	free		0	0	0
15	free		0	0	0
16					

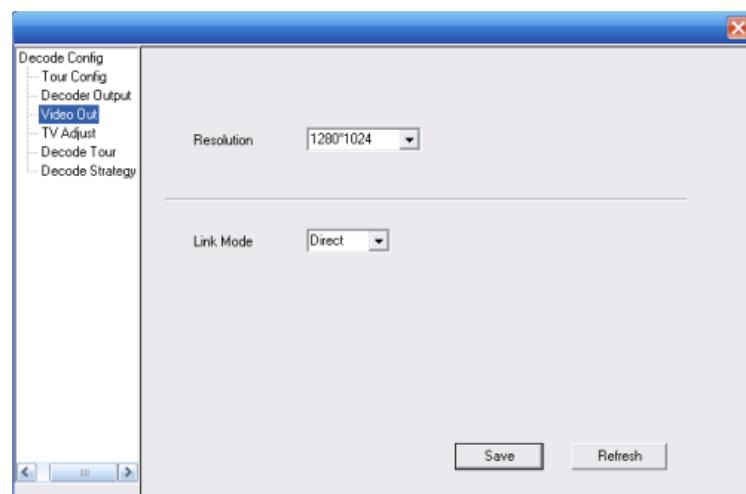
3.4.3 Video Output

The video output interface is shown as below.

Set the resolution of decoder, which is the resolution of the output TV. Supports three resolutions: 1280x1024, 1208x720 and 1920x1080. Here you can view there are two connection modes: direction connection and forward connection. When you use WEB or PSS (Professional surveillance software) to control the device, the device is in direction connection type. When you use DSS to control the device, the device is in forward mode.

Important:

The connection mode here is read-only.

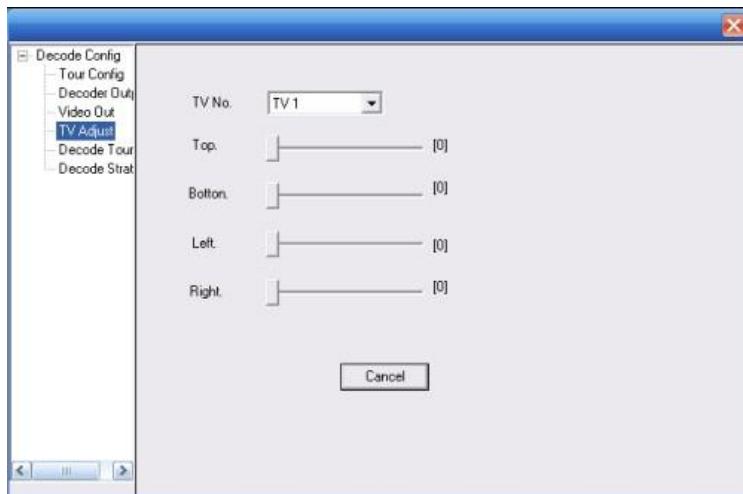


Decode Config	Resolution	1280*1024
	Link Mode	Direct
		Save Refresh

3.4.4 TV Adjust

Here you can adjust the TV display margin.

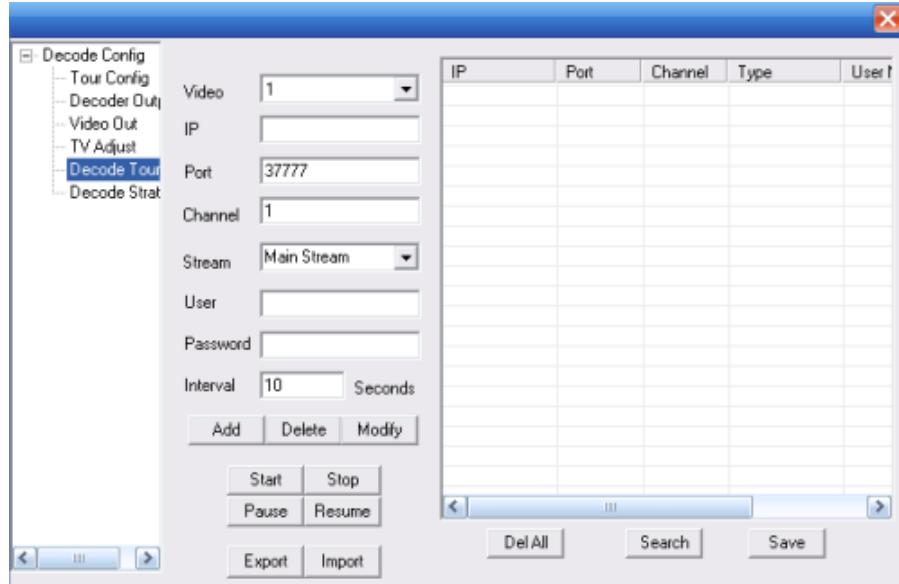
You can select the TV number and then drag the slide bar to adjust.



3.4.5 Decode Tour

Decode tour: each decode channel is bounded with 32 channels on web. Each channel on the web will be displayed in accordance to the channel and internal which are previously set in turn.

The decode tour interface is shown as below.



Parameters

- Video: Here you can select the decode channel. The value ranges are from 1 to 28. IP: The front-end device IP address.
- Port: The front device port value.
- Channel: The tour channel of the front-end device.
- Stream: The front-end stream type. There are two options: main stream and extra stream.
- User: The user name you use to login the front-end device. Please make sure it is useable (Multiple users can use current account to login at the same time)
- Password: The password you use to login the front-end device.
- Interval: The period video displayed in current channel. The value ranges from 10 to 120 seconds.

Buttons

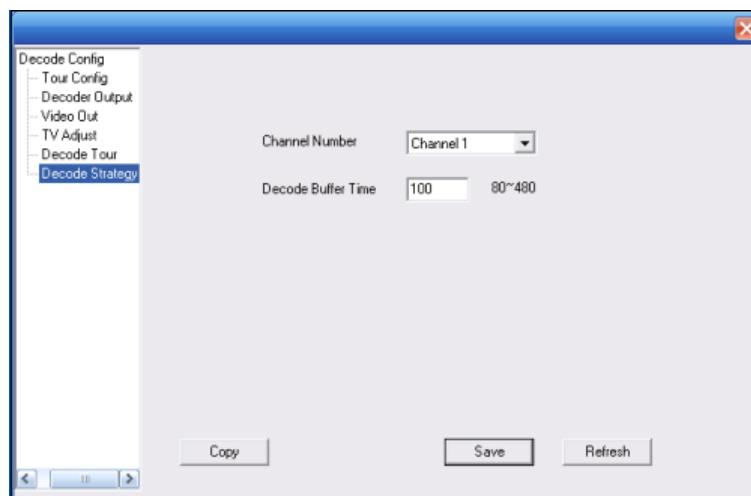
- Add: After you set the decode channel, IP address etc, please click the add button, the device information will be added to the list on the right panel (Please note it has not been saved in the device.)
- Delete: Select an item in the list and then click the button to remove. Please note you need to click save button to complete the operation (That is to say, you need to click save button to remove the information in the device.)
- Modify: Double click an item in the list you can modify the device information. Click modify button to save current modification. Please note current information has not been saved in the device.
- Delete all: Click it to remove all device information in the list. It is to clear all decode tour setups.
- Save: Click it to save the setup on the right panel to the device.
- Search: Click it to search the tour setup information of corresponding decode channel.
- Start: Click it to begin the decode tour of the specified channel.
- Stop: Click it to stop the decode tour setup of the specified channel.
- Pause: Click it to pause tour. Current tour will be displayed in the channel all the long.
- Resume: Click it to resume tour. The tour gets activated and then begins from the next tour setup.
- Export: Export all tour setups of the device.
- Import: Import all tour setups of the device.

Setup steps:

1. Set the parameters of decode channel, such as IP and channel, then click “add”, the device info will be added into the list on the right.
2. Click “save” to save those to the device.
3. Click “start” to start the decode tour of the chosen channel.

3.4.6 Decode strategy

Set the delay time of decoder in each decode channel, the buffer time is ms.



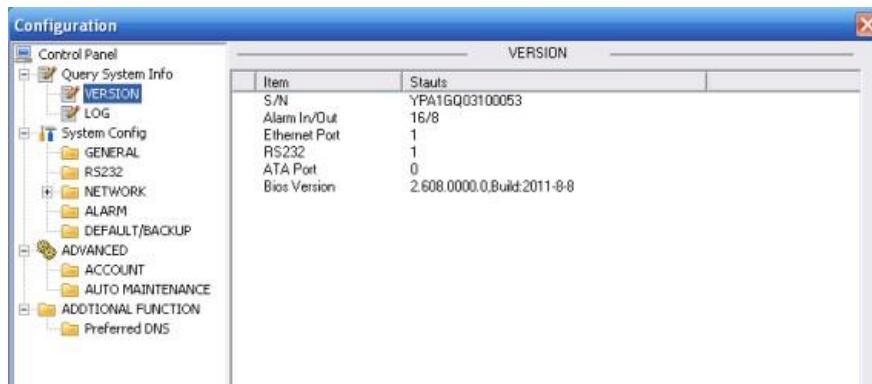
Parameters	Explanation
Channel number	Channel 1-28 are available
decoding buffer time	Selectable range: 80~480

3.5 Configuration

3.5.1 System Information

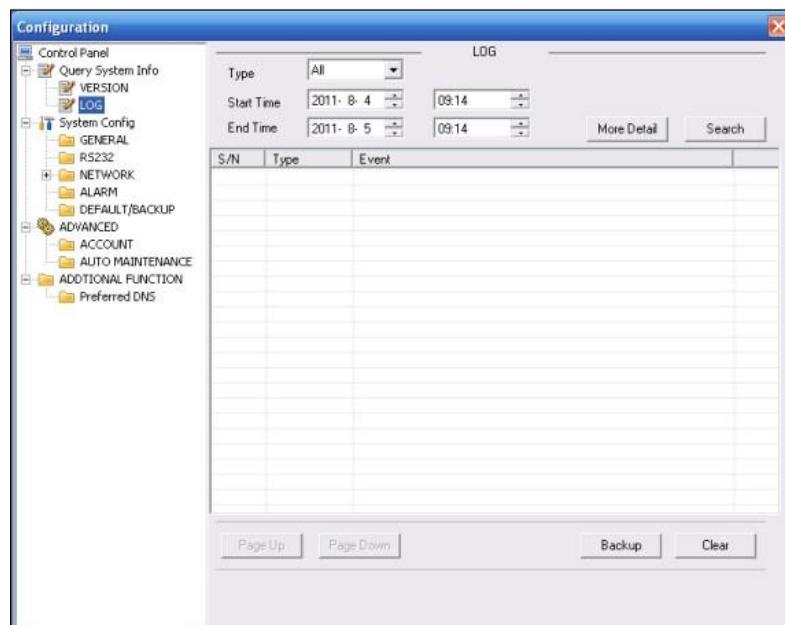
● Version Information

Here you can view device hardware feature and software version information.

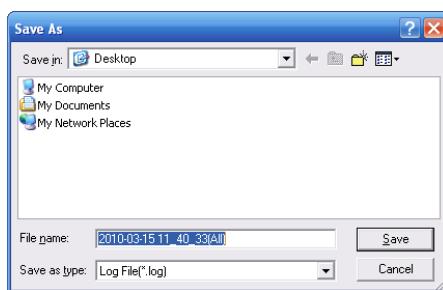


● Log

Here you can view system log.



Click backup button, the interface is shown as below.



Please refer to the following sheet for log parameter information.

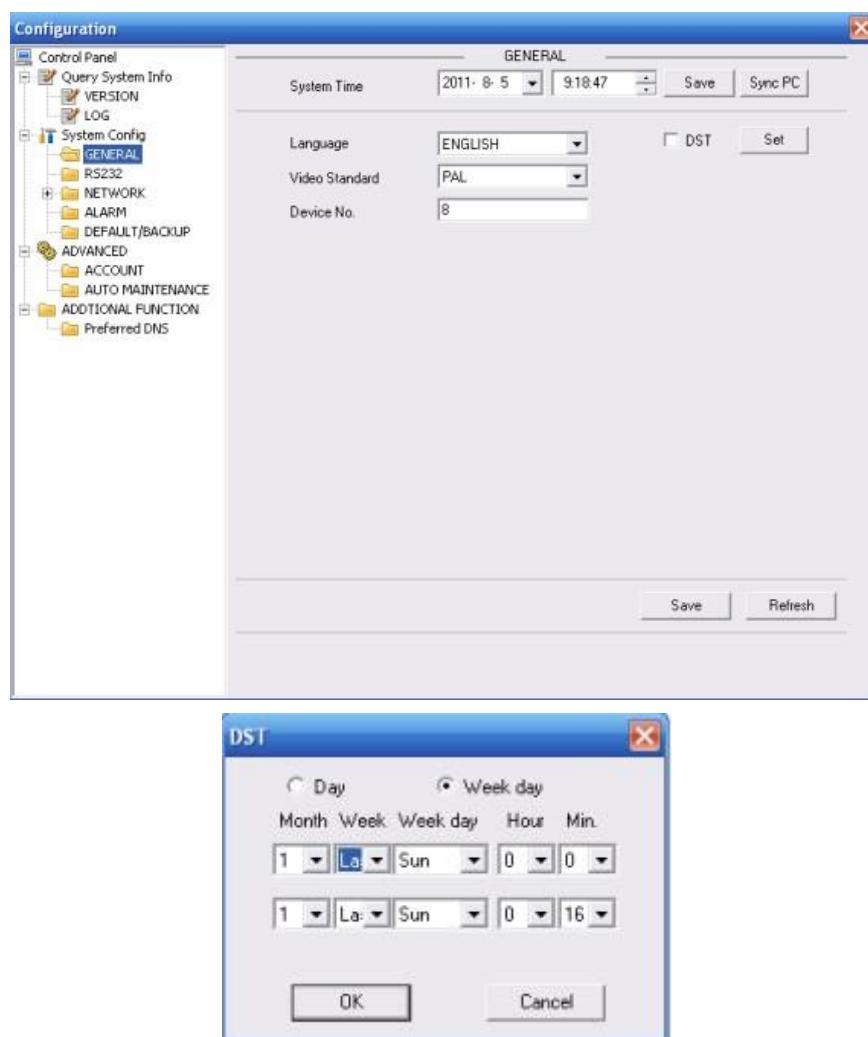
Parameter	Function
Type	Log types include: system operation, configuration operation, alarm event, user management, log clear.
Search	You can select log type from the drop down list and then click search button to view the list.
Clear	You can click this button to delete all displayed log files.
Backup	You can click this button to backup log files to current PC.

3.5.2 System Configuration

Please click save button to save your current setup.

● General Setup

Here you can set system time, DST, video format and etc.

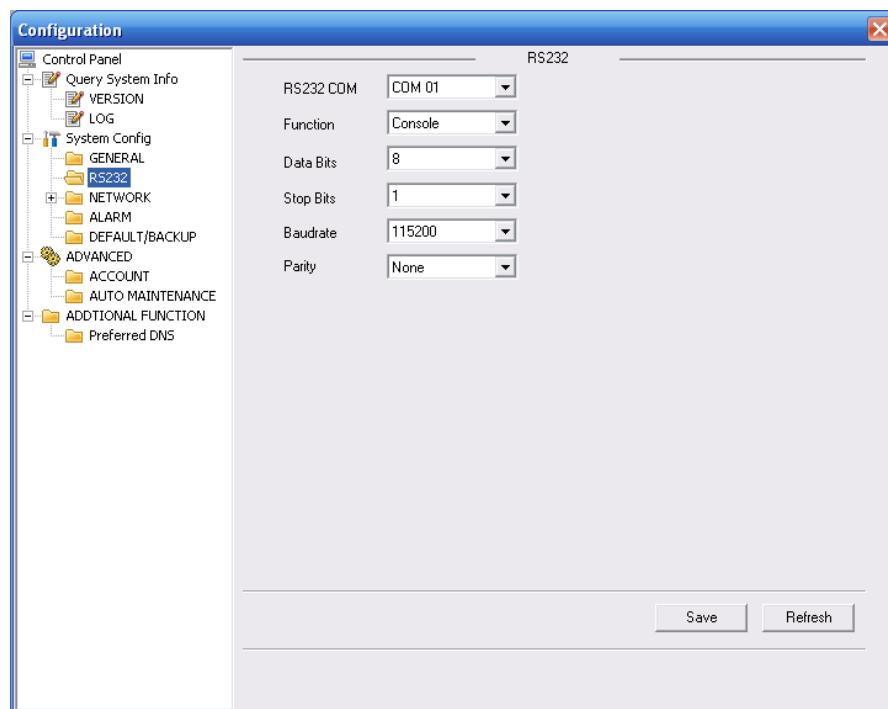


Please refer to the following sheet for detailed information.

Parameter	Function
System Time	Here is for you to modify system time. Please click Save button after your completed modification
Sync PC	You can click this button to save the system time as your PC current time.
DST	Here you can set day night save time begin time and end time.
Language	You can select the language from the dropdown list. Device needs to reboot to get the modification activated.
Video Standard	You can select video format such as PAL. You need to reboot the device to activate current setup.
Local Number	Default number 8

● RS232

The RS232 interface is shown as below.



Please refer to the following sheet for detailed information.

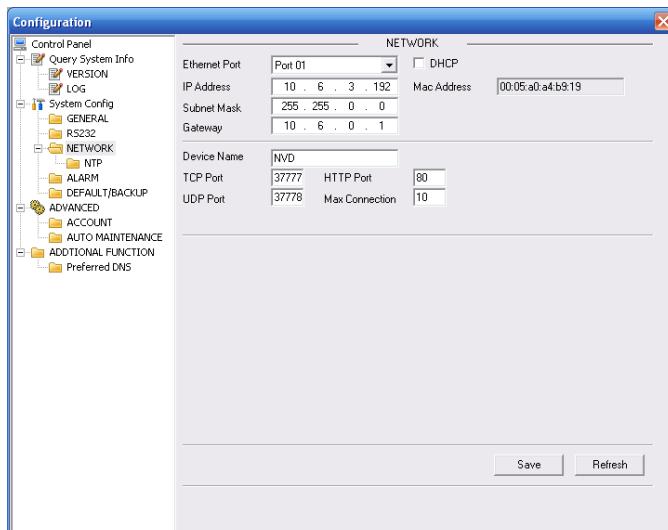
Parameter	Function
RS232 COM	You can use the COM or mini terminal to upgrade and debug the software.
Function	You can use special keyboard to control device via COM.
Data Bit	The value ranges from 5 to 8.
Stop Bit	There are three options: 1/1.5/2.
Baud Bit	You can select corresponding baud bit here.
Parity	There are four options: none/odd /mark/space.

System default setup is:

- RS232: COM01
- Baud rate: 115200
- Data bit: 8
- Stop bit: 1
- Parity: None.

● Network

Network interface is shown as below.



Please refer to the following sheet for detailed information.

Parameter	Function
Ethernet	Please select the network card first.
IP Address	The IP address of this device, user can set the IP address according to his actual requirements. then set subnet mask, gateway correspondingly.
DHCP	Dynamically get IP address. You can get the device IP from the DHCP server if you enabled this function.
Device Name	Default name is NVD. You can input a new one if necessary.
TCP Port	Default value is 37777.
HTTP Port	Default value is 80.
UDP Port	Default value is 37778.
Max Connection	Network user max amount. The value ranges from 1 to 10.

NTP

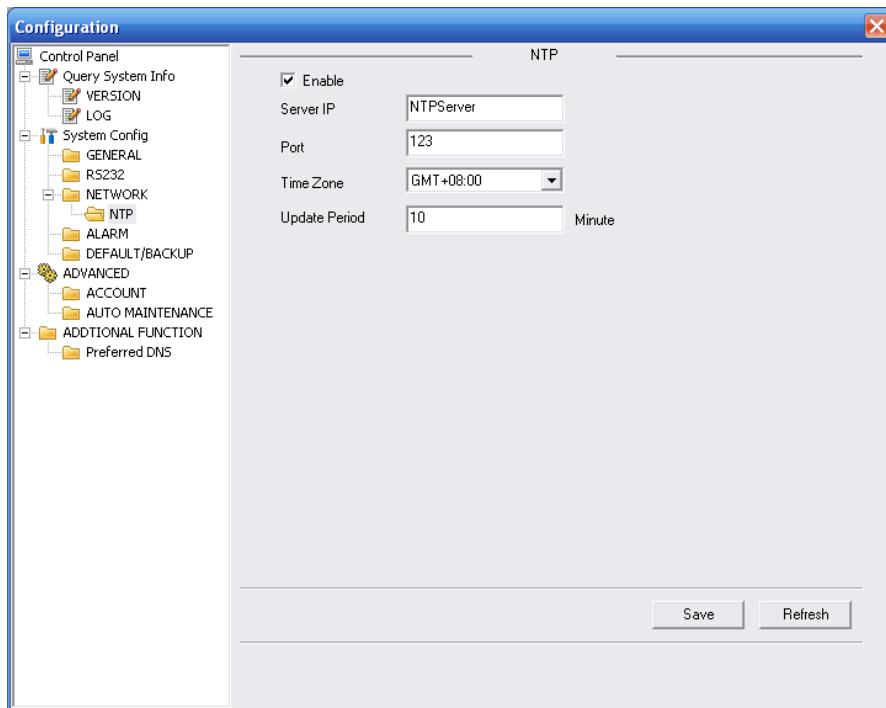
The NTP interface is shown as below.

NTP is a UDP protocol for IP network to realize network time synchronization.

You need to install a SNTP server in the PC. You can use command net start w32time to boot up in XP OS. Then you can configure NTP setup

Please enable current function and then input server IP, port number, time zone and time.

Please note current SNTP support TCP transmission only and port value is 123 only.

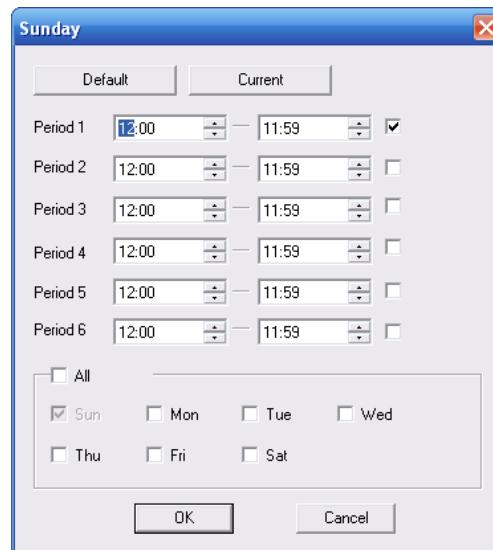
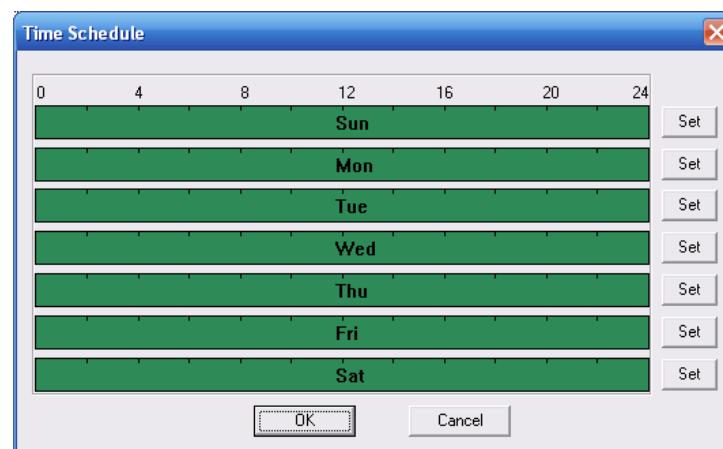
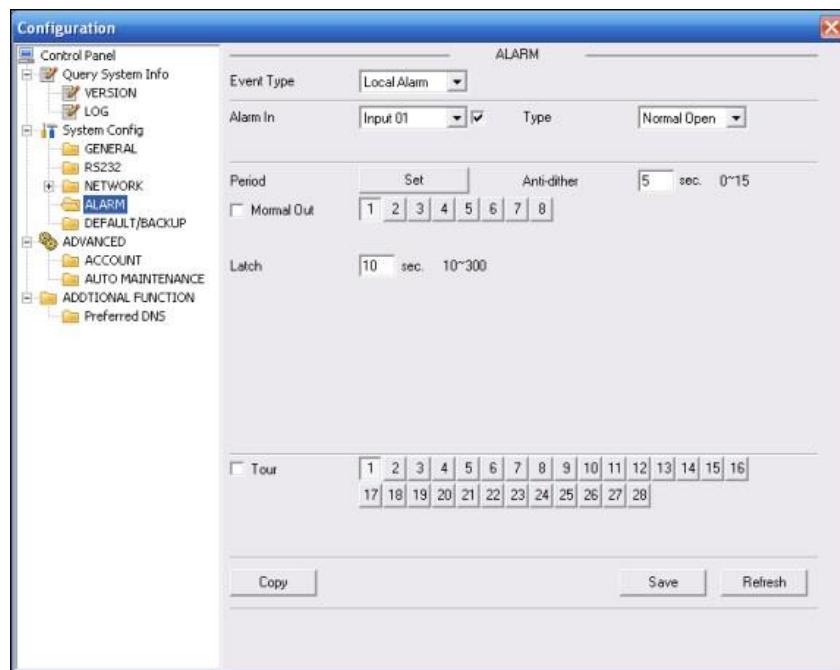


Please refer to the following sheet for time zone information.

City /Region Name	Time Zone
London	GMT+0
Berlin	GMT+1
Cairo	GMT+2
Moscow	GMT+3
New Deli	GMT+5
Bangkok	GMT+7
Beijing (Hong Kong)	GMT+8
Tokyo	GMT+9
Sydney	GMT+10
Hawaii	GMT-10
Alaska	GMT-9
Pacific Time(P.T)	GMT-8
American Mountain Time(M.T)	GMT-7
American Central Time(C.T)	GMT-6
American Eastern Time(E.T)	GMT-5
Atlantic Time	GMT-4
Brazil	GMT-3
Middle Atlantic Time	GMT-2

- **Alarm**

Alarm setup interface is shown as below.



Please refer to the following sheet for detailed information.

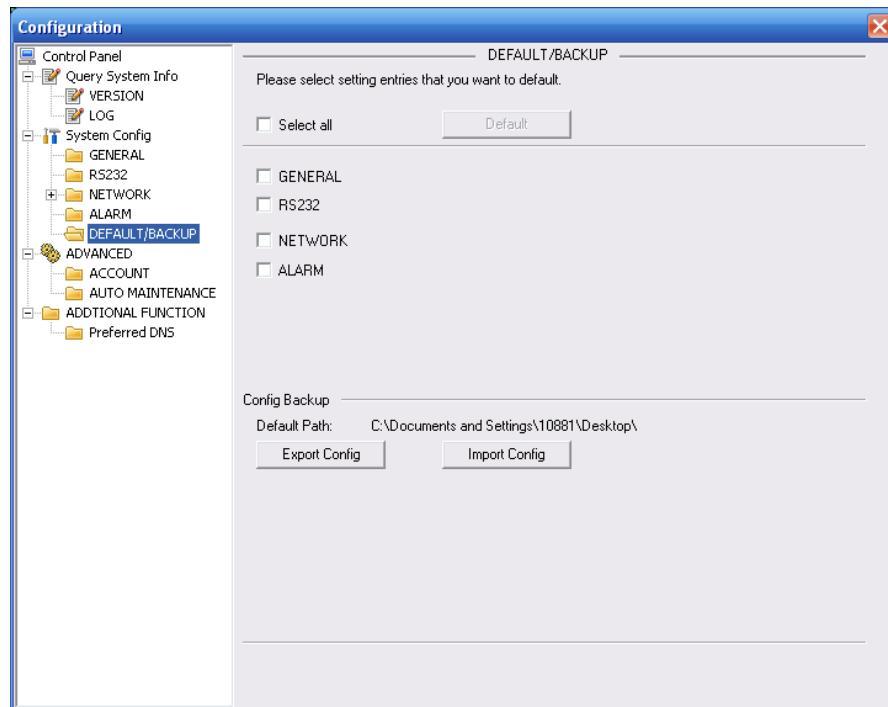
Parameter	Function
Event Type	<p>It includes local alarm/network alarm.</p> <p>Local alarm: Device detects alarm from input port.</p> <p>Network: Device detects alarm from network.</p>
Alarm in	Select corresponding alarm channel.
Enable	You need to draw a circle here so that system can detect the alarm signal.
Type	There are two options: normal open and normal close. NO becomes activated in low voltage, NC becomes activated in high voltage.
Period	<p>Alarm record function becomes activated in the specified periods.</p> <p>There are six periods in one day. Please draw a circle to enable corresponding period.</p> <p>Select date. If you do not select, current setup applies to today only. You can select all week column to apply to the whole week.</p> <p>Click OK button, system goes back to alarm setup interface, please click save button to exit.</p>
Anti-dither	System only memorizes one event during the anti-dither period. The value ranges from 0 to 15s.
Normal Out	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when alarm occurs.
Alarm Latch	System can delay the alarm output for specified time after alarm ended. The value ranges from 10 seconds to 300 seconds.
Tour	Display the selected video in local monitor window.
Copy	It is a shortcut menu button. You can copy current channel setup to one or more (all) channels.
Save	You can click save button after you complete setup for one channel, or you can complete the whole setups and then click save button.
Refresh	Click this button to get device latest configuration information.

● Default and Backup

The default and copy interface is shown as below.

Default: Restore factory default setup. You can select corresponding items. The options include: general/RS232/Network/Alarm.

Backup: Export current configuration to local PC or import configuration from current PC.



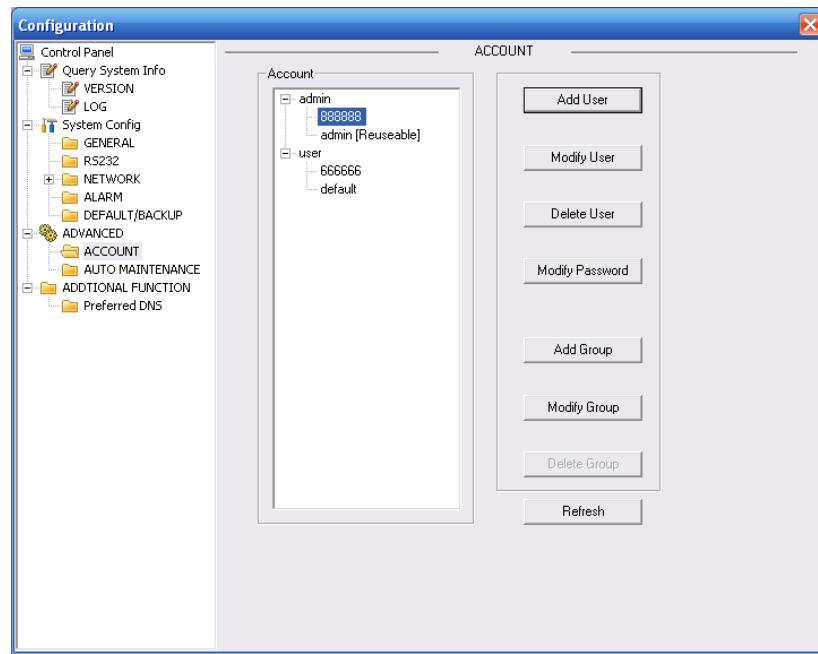
Please refer to the following sheet for detailed information.

Parameter	Function
Select All	Restore factory default setup.
Export Configuration	Export system configuration to local PC.
Import Configuration	Import configuration from PC to the system.

3.5.3 Advanced

● Account

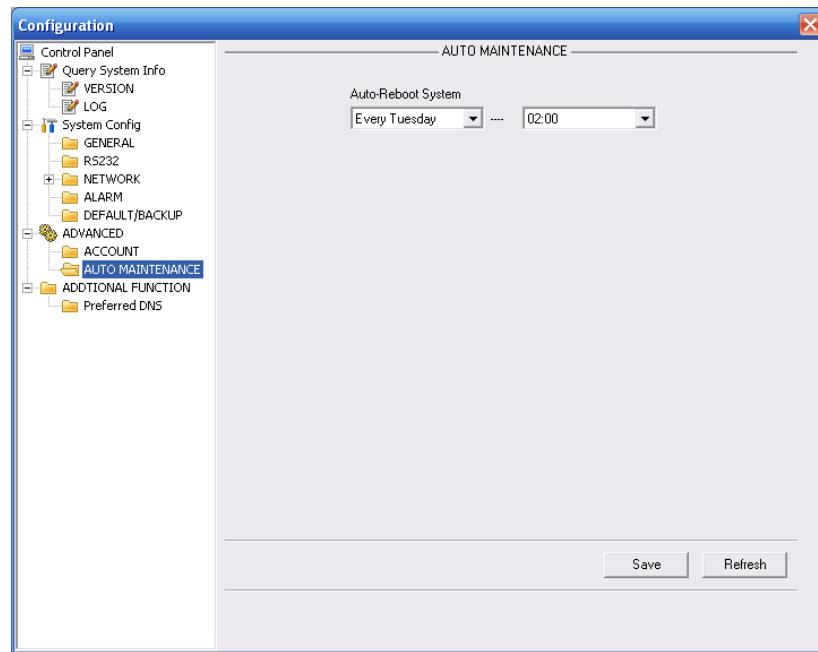
Here you can add, remove user or modify password.



● Auto Maintenance

Here you can select auto reboot and auto delete old files interval from the dropdown list.

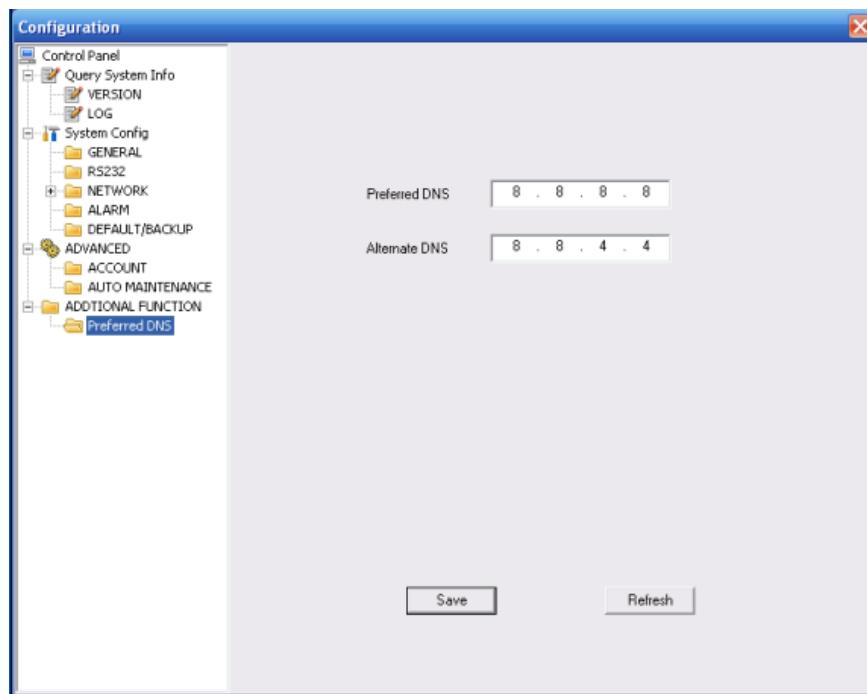
Please note system is in four-window display mode after it automatically rebooted.



3.5.4 Additional Function

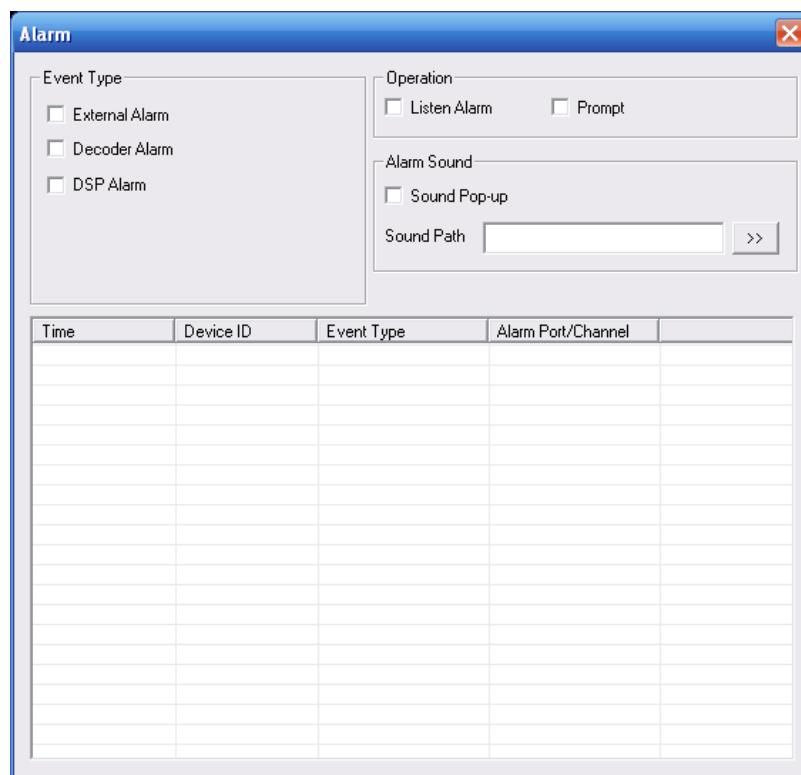
- **Preferred DNS**

Here you can set server or local operator DNS address.



3.6 Alarm

There are three modes: external alarm/decoder alarm/DSP alarm. You can set alarm prompt mode.



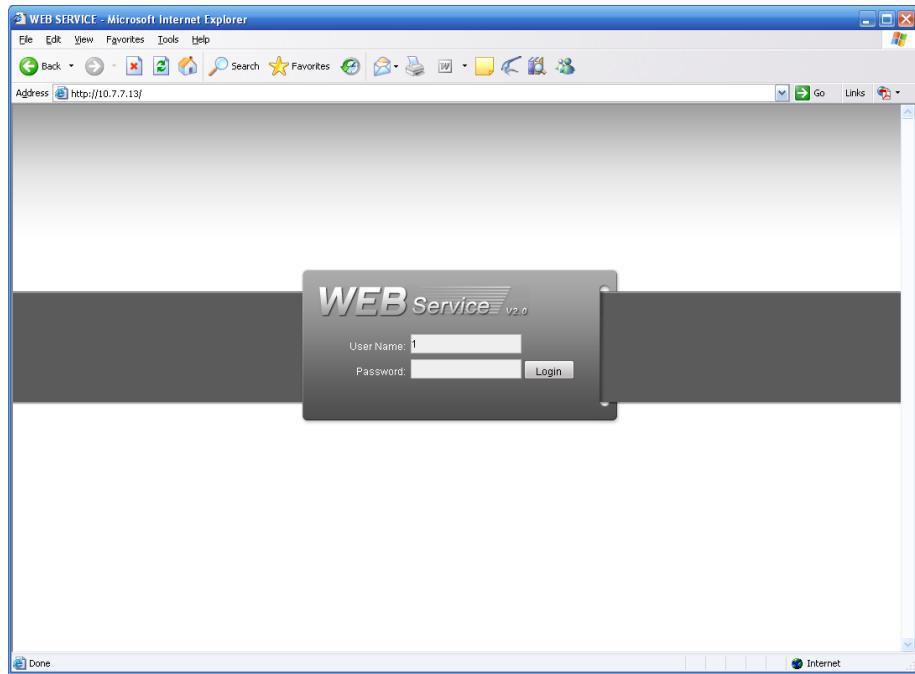
3.7 About

Click about button, you can view the web information.



3.8 Log out

Click log out button, you can go back to log in interface.



4 Alarm Input and Output

Before device connection, please make sure:

- Alarm Input

Please check the alarm type (Normal open/normal close) first. Then set the NVS0X04DH network alarm type. Set NVS alarm type as NO (Normal Open) if it is ground alarm, otherwise set it as NC (Normal Close).

Please note alarm input is active in low voltage, please ground it.

Please use a relay to separate devices, when there are two decoders, or there is one decoder and one another device.

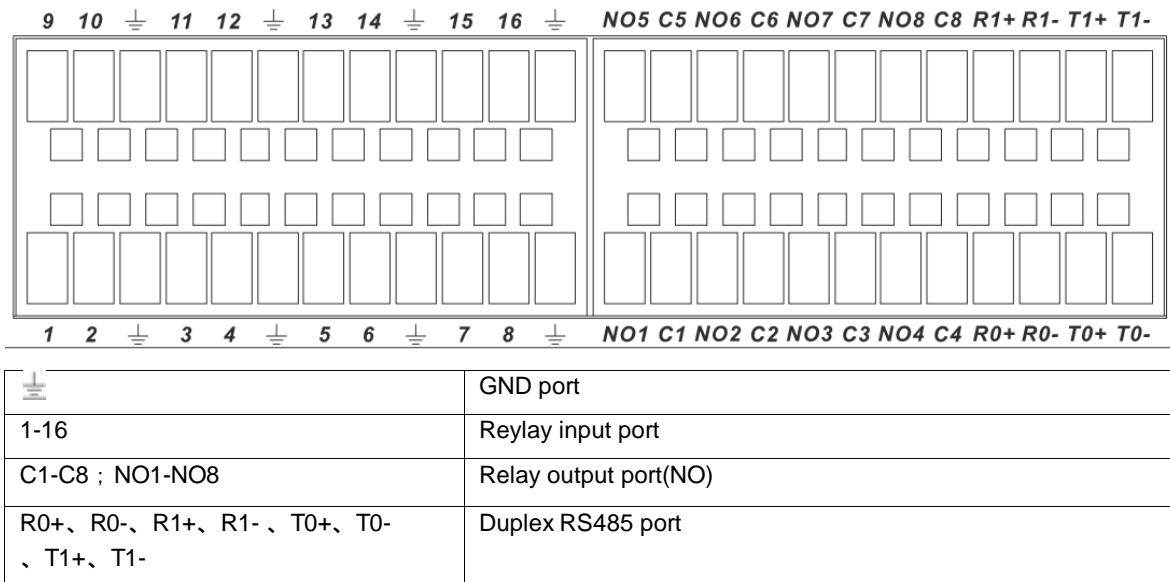
- Alarm Output

Do not connect the alarm output port to high power load directly (It shall be less than 1A); it may result in heavy current which may destroy the relay. Please use co contactor to realize the connection between the alarm output port and the load.

- Sound Ground

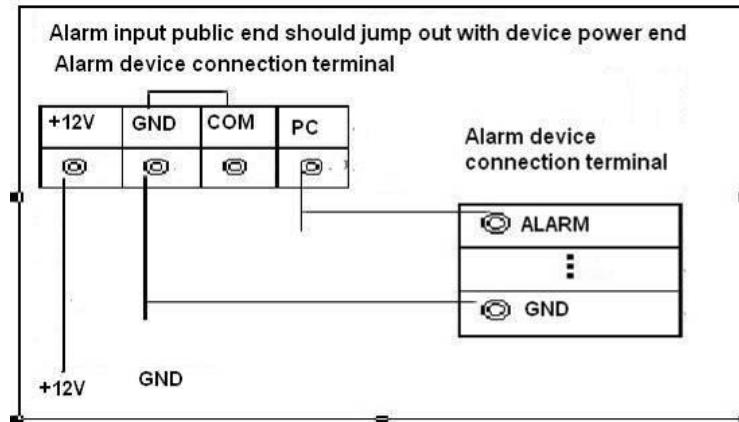
Please make sure the front-end device has earthed. Otherwise it may result in chip damage.

Alarm input type can be NO (normal open) or NC (normal close).



4.1 Alarm Input Port

- There are 16-ch alarm inputs and the input type can be NO or NC.
- Connect the NC port of alarm detector to the NVS alarm input port (ALARM)
- When using external power to provide power to the alarm device, please make it has the same ground with the NVS.
- Please refer to the following figure for more information.



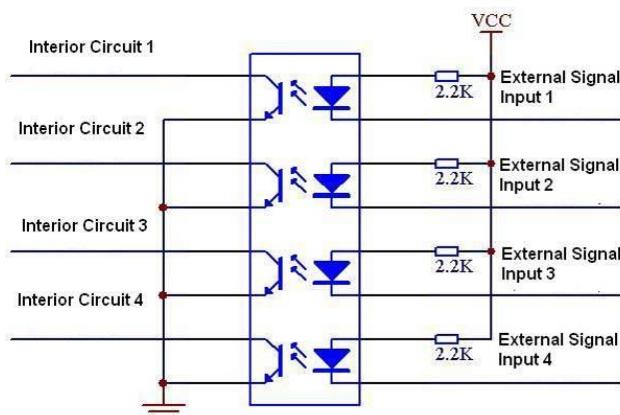
4.2 Alarm Output Port

8-ch alarm output (normal open contact). The external alarm device needs the battery supported.

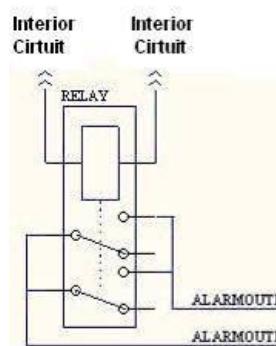
To avoid overload to damage the device, please refer to the following sheet for relay specification information.

About A/B cable of RS485, they are used to connect to the PTZ decoder A/B cable.

Please refer to **Erreur ! Source du renvoi introuvable.** for alarm input module information.



Alarm output module information :



4.3 Alarm Output Relay Specification

4.3.1 Contact parameters

Contact Form	1Z
Contact Resistance	100mΩ (0.1A 6VDC)
Contact Material	AgNi+Gilded
Contact Rating (Resistive)	0.5A 125VAC/1A 30VDC
Max. switching voltage	125VAC/60VDC
Max. switching current	2A
Max. switching power	62.5VA/30W
Min. permissible loading	1mA 5V
Mechanical durability	1x10 ⁷ times (300 times/min)
Electrical durability	1x10 ⁵ times (30 times/min)